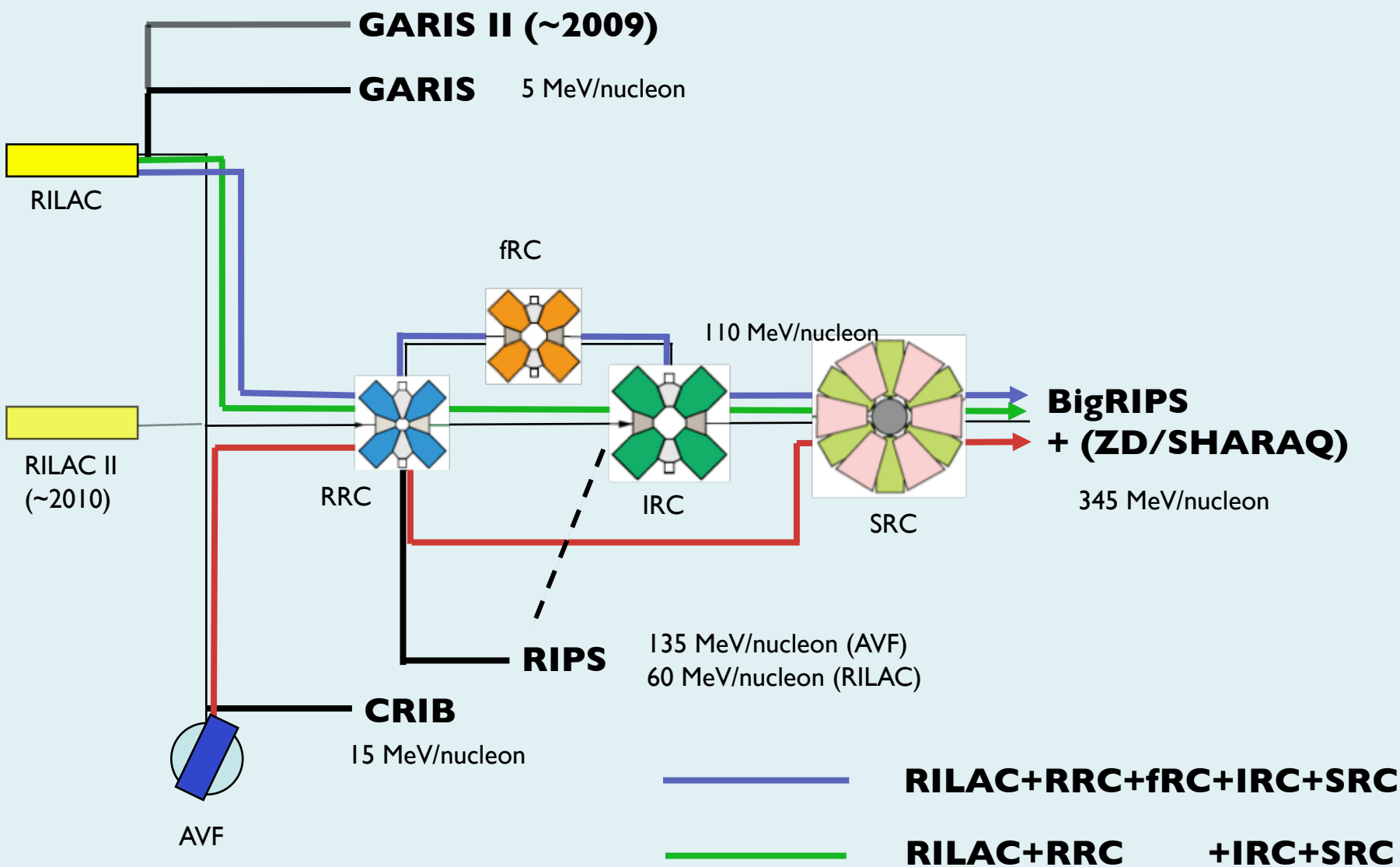
RIBF operation scheme



Sep. 09

JUSEIPEN

Beam time at RIBF

experiment / development / construction of equipment <= PACs

service (plant breeding, isotope production, ..)
<= RNC initiative

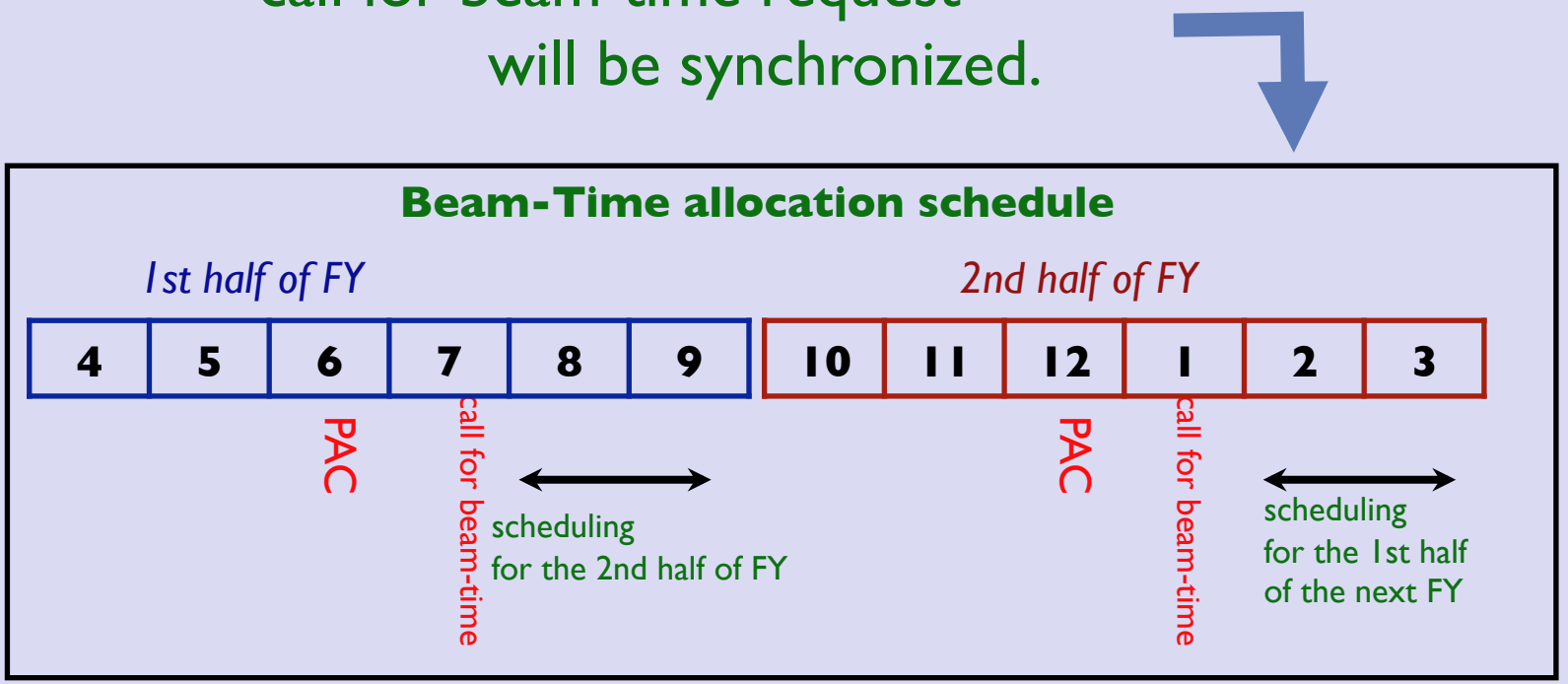
development of accelerator / basic equipment, commissioning,…

RNC PACs

NP-PAC	ML-PAC
nuclear physics experiments at RIBF	material and life science at RIBF and RAL(μ)

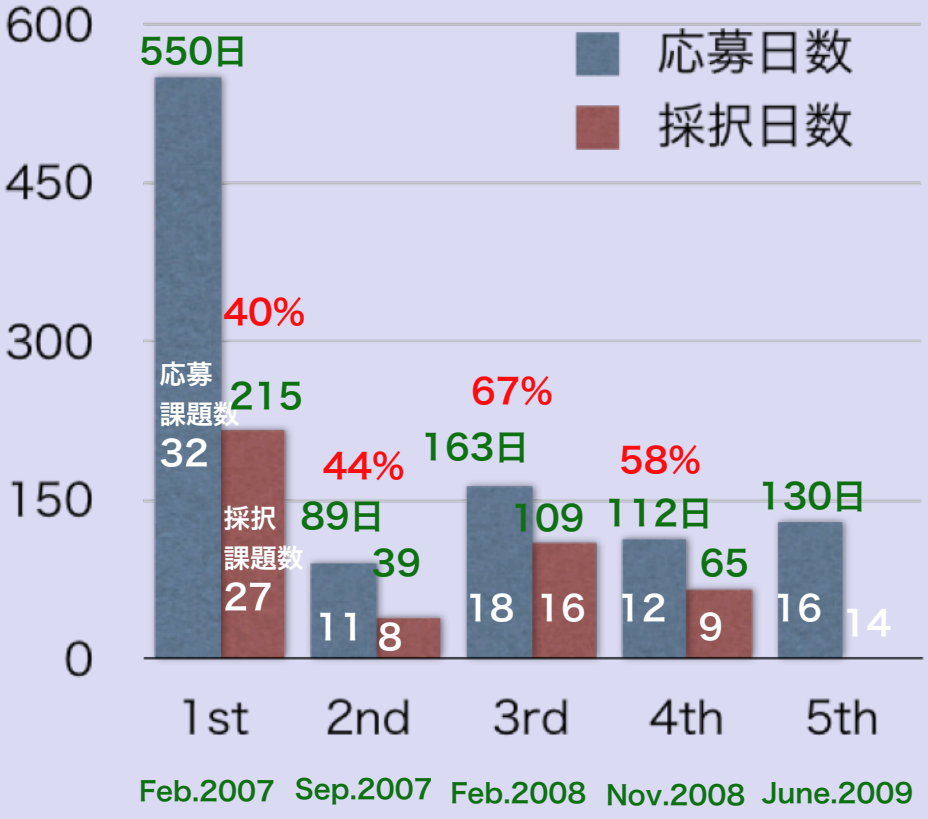
1) Term of office : two years

2) PAC meetings : June and Dec.
"call for beam-time request"
will be synchronized.

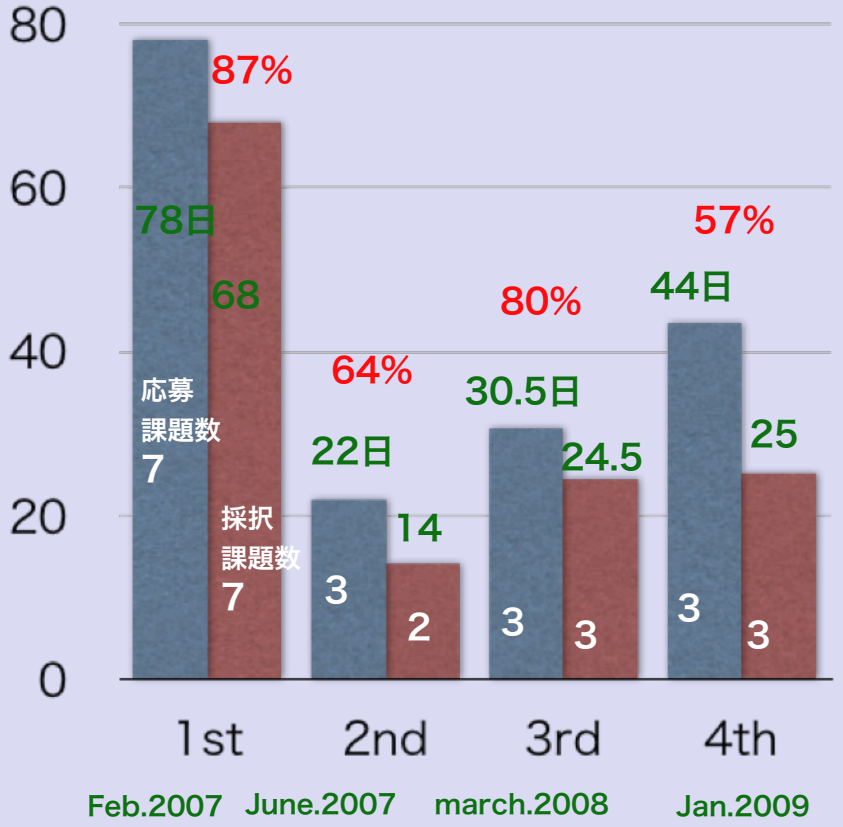


応募日数と採択日数 proposed / approved in days - June 2009

原子核 nucl. phys.



物質・生命(RIBF) material and life



BigRIPS （新施設）課題関連データ（第５回まで） for new facility

Flow chart for experiments at RIBF

Proposal submission

PAC meeting — Twice a year

For PAC-approved experiments

Beam Time request — Twice a year

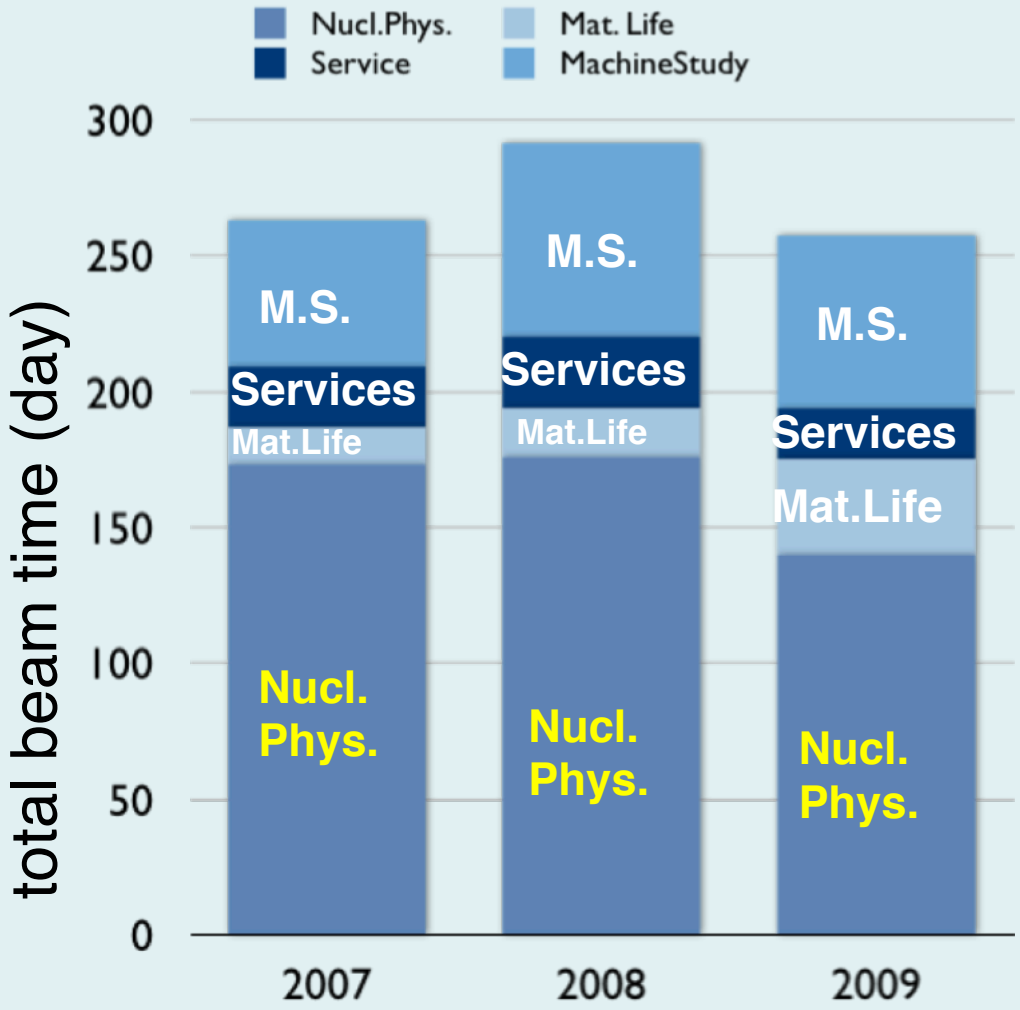
Safety review

Beam Time allocation

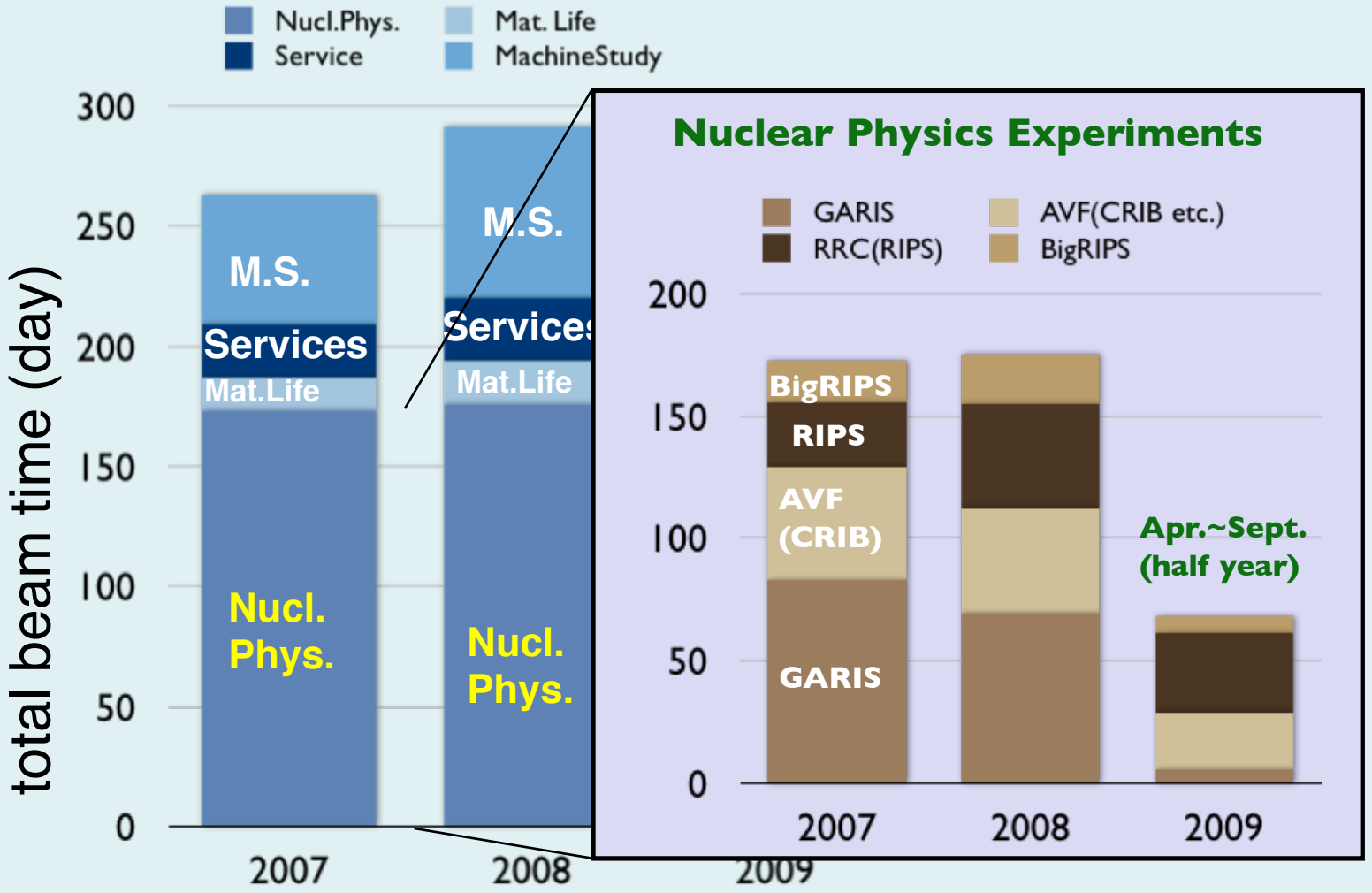
Experiments at RIBF

reports

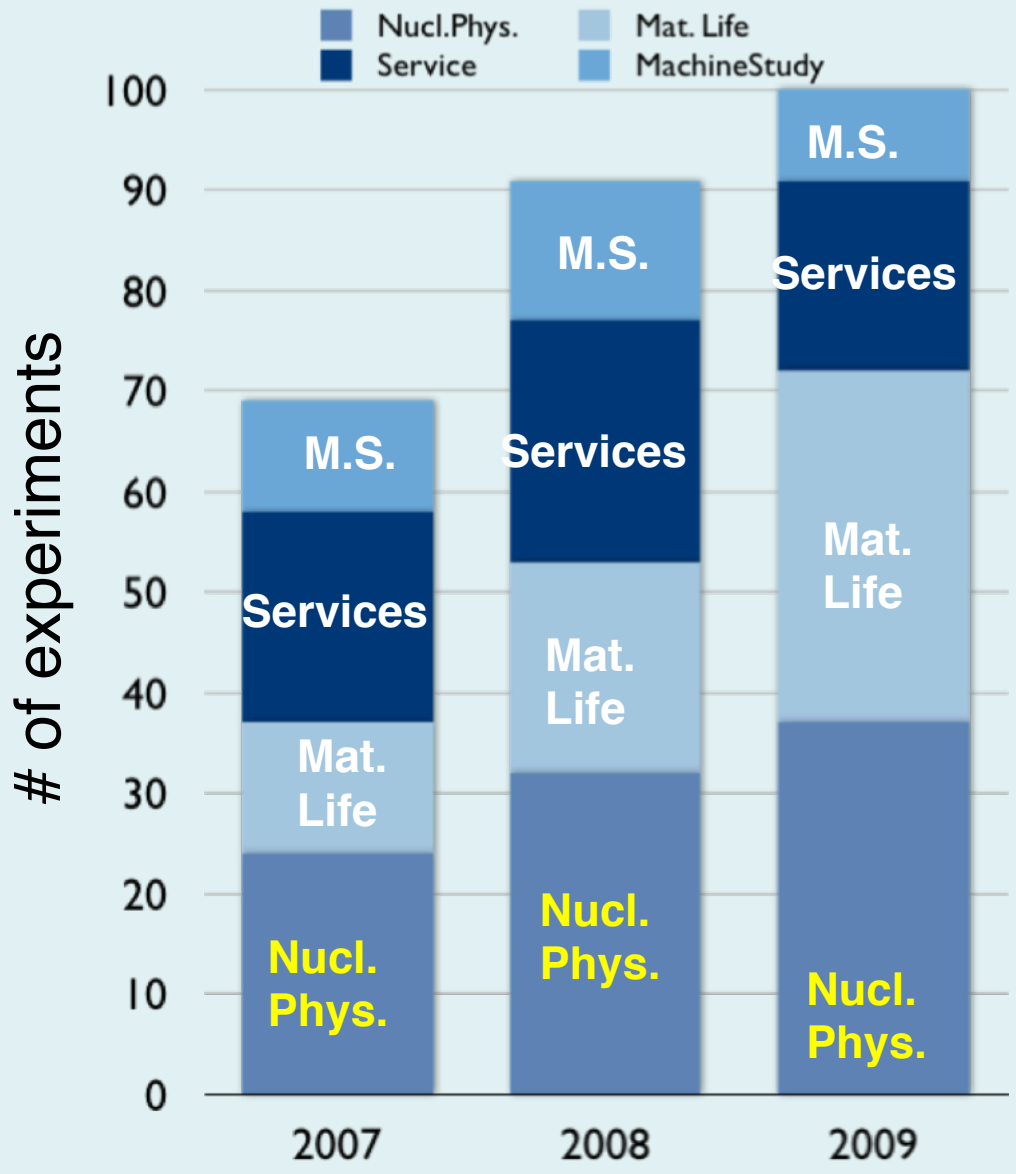
Total beam time for experiments



Total beam time for experiments

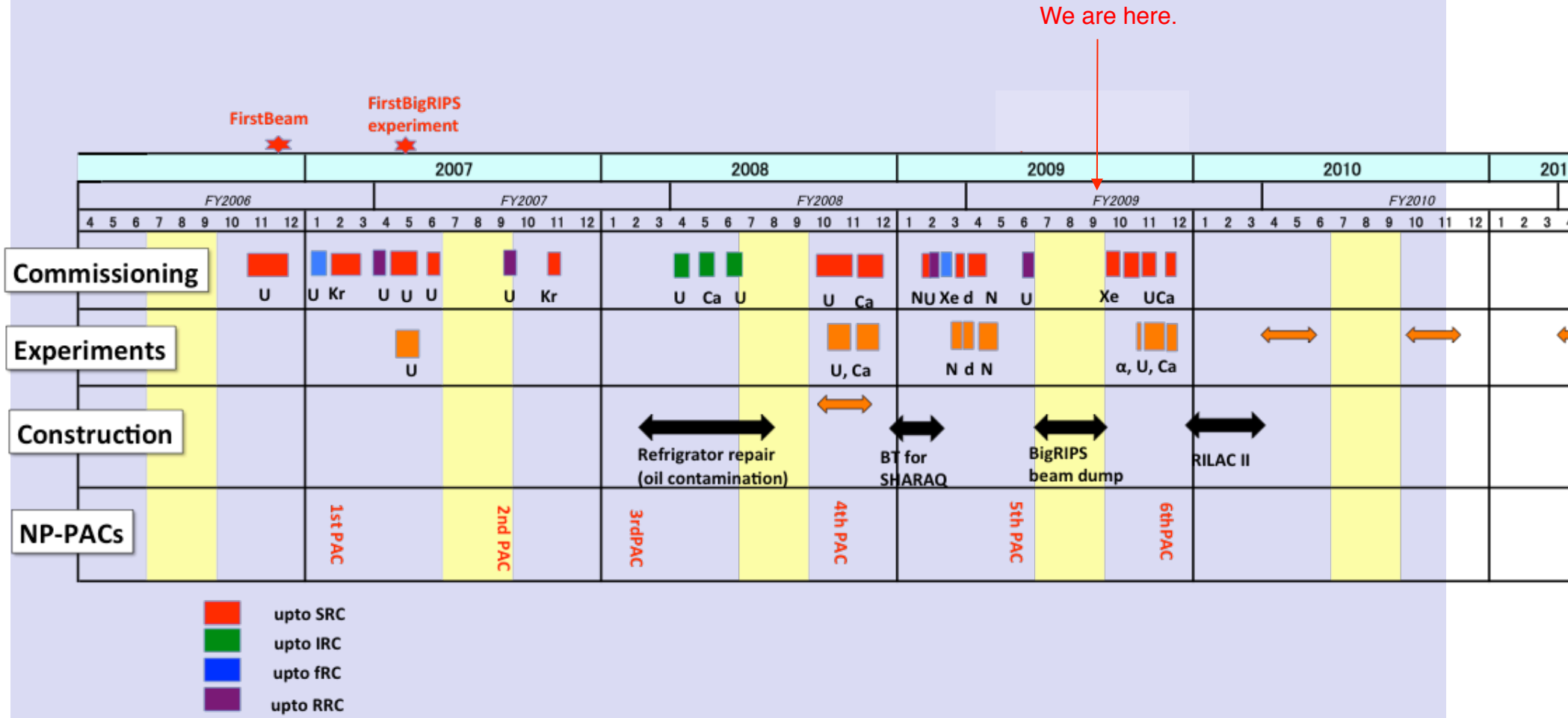


Number of experiments performed



Sep. 09

operation history of RIBF new facility after its completion



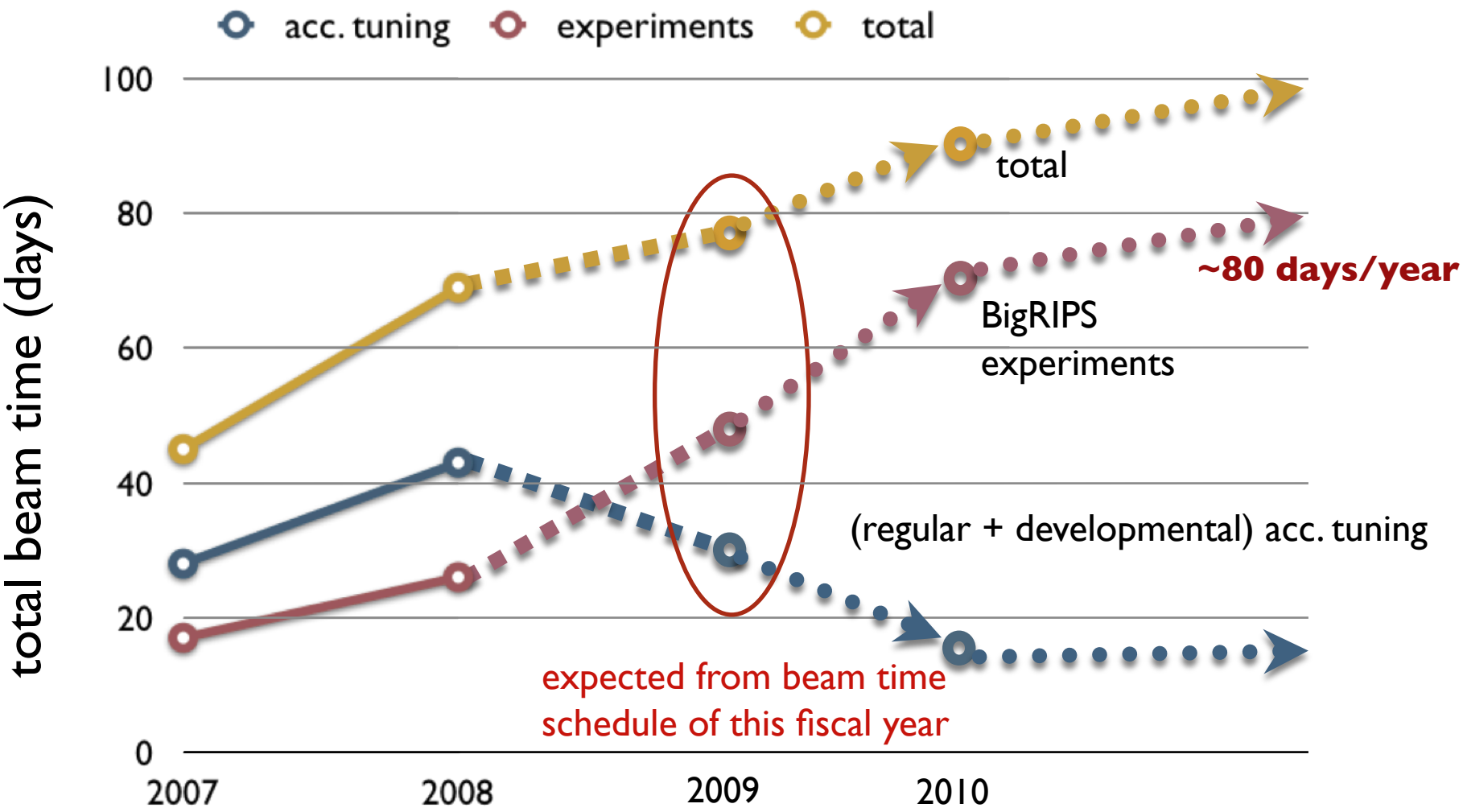
experiments made: 26.5 days (181 days of backlog)

primary beam intensities at RIBF

	Ca	Kr	Xe	U
announced intensities for FY2009	**200 pnA**	**30 pnA**	**10 pnA**	**5 pnA**
achieved FY2008	**170 pnA (08/12/21)**	**30 pnA (07/11/04)**	**—**	**0.4 pnA (08/11/16)**
during FY2009	**200 pnA**	**30 pnA**	**10 pnA**	**5 pnA**

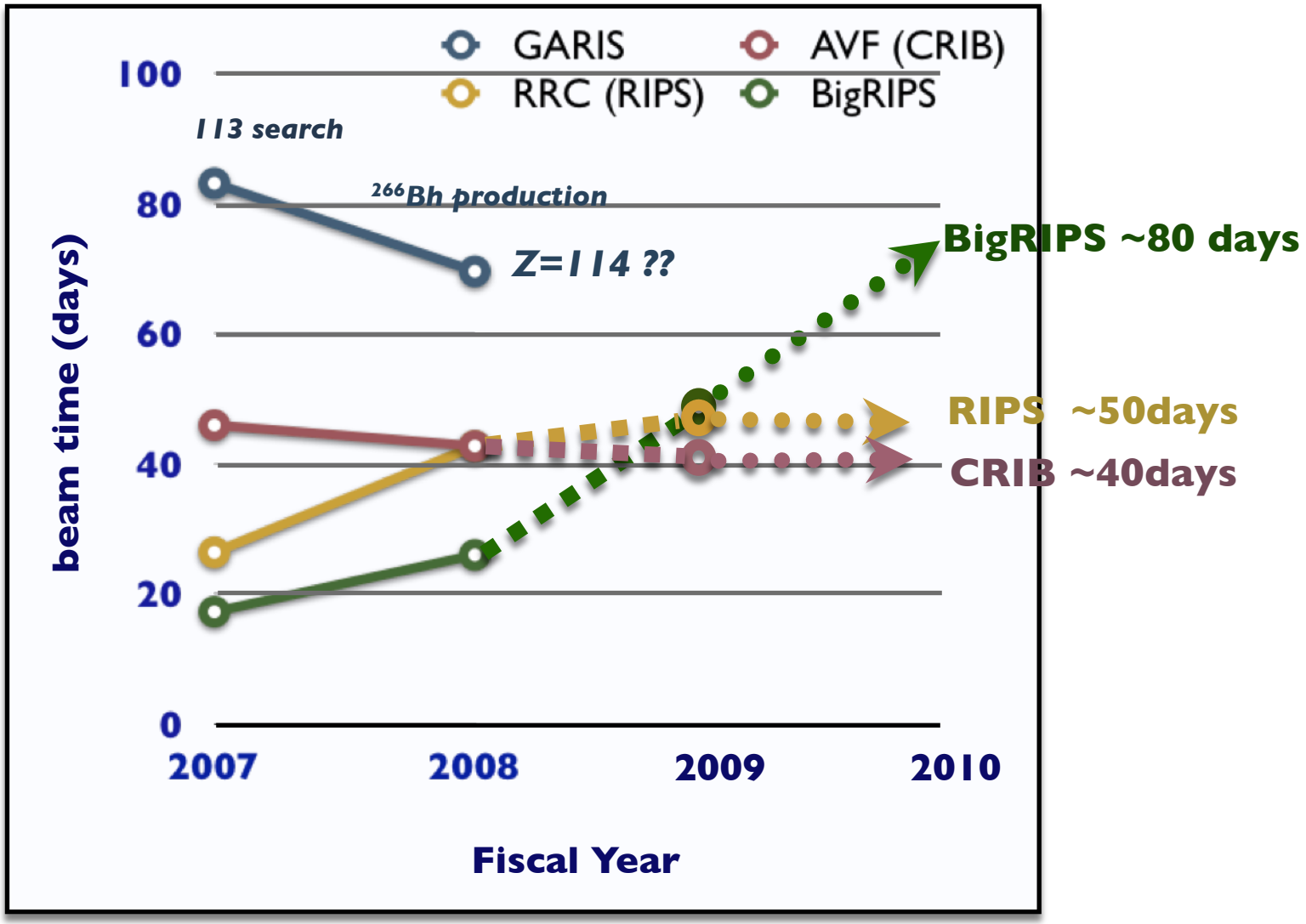
Pol. d (250 MeV/nucleon) : pol. ~ 80 % (April 2009)
^{14}N (250 MeV/nucleon) : (May 2009)

total beam time for BigRIPS experiments

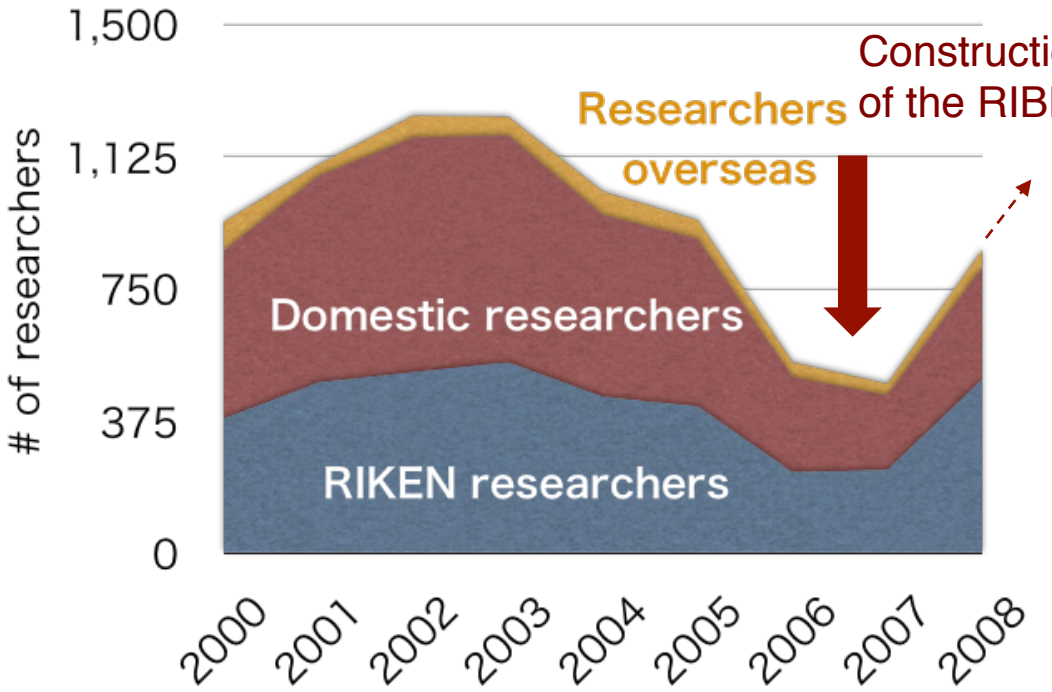


total beam time for experiments

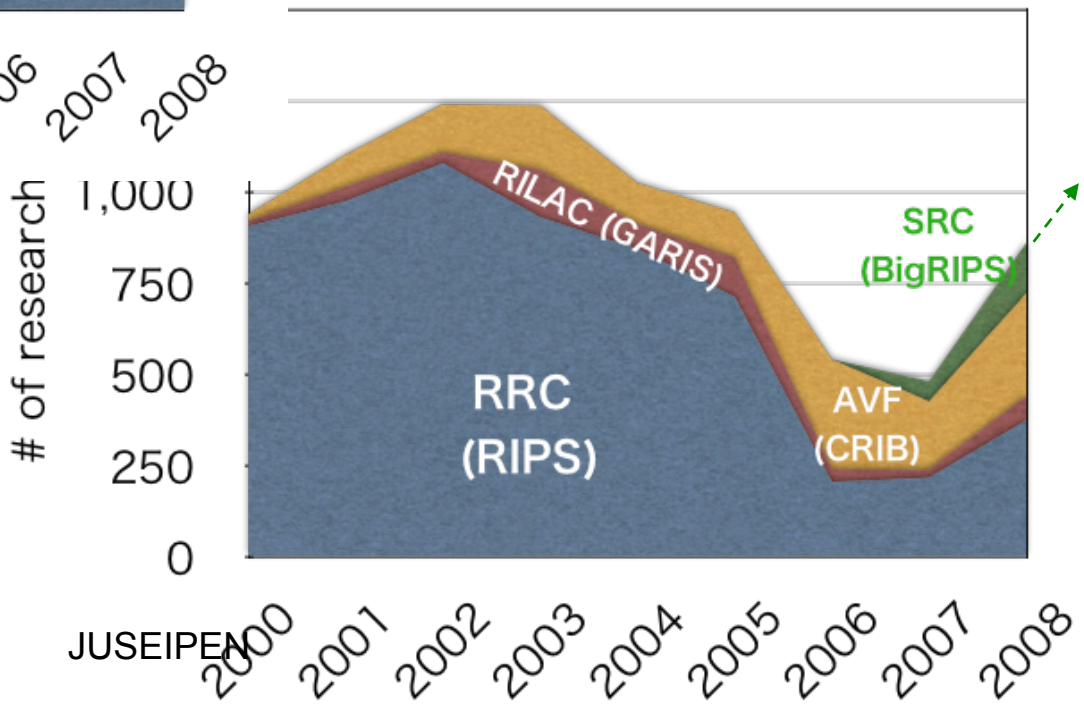
-GARIS, CRIB, RIPS and BigRIPS -



of experimenters a year



Construction and commissioning of the RIBF new facility



collaboration

Program Announcement to DOE National Laboratories, LAB 08-10

Research Opportunities at Rare Isotope Beam Facilities

list of proposal with RIKEN (host)

Japan-US Experimental Institute for Physics with Exotic Nuclei (JUSEIPEN)
R.E.P. Fallon (LBL)

The Future of Gamma-Ray Spectroscopy: GRETA, The Gamma-Ray Energy Tracking Array → other sources
I. Yang. Lee (LBL)

Design and Construction of a 56 GHz ECR ion source magnet structure
D. Leitner, G. Sabbi (LBL)

The Super-Clover Cube : A Detector System for Decay Spectroscopy of Nuclei Near the Limits of Stability
R.M. Clark (LBL)

Breakup of loosely bound nuclei at intermediate energies for nuclear astrophysics and the development of a position sensitive microstripdetector system and its readout electronics using ASICs technologies.
R.E. Tribble (TAMU)

Compton Suppressed Ge Clover Array for Stopped and Energy Degraded Beams at RIKEN
M.P. Carpenter (ANL)

Production of Neutron-rich Heavy Nuclei and their Fission Process at RIBF
R.V.F. Janssens (ANL)

Determination of the Equation of State of Asymmetric Nuclear Matter
B. Tsang (MSU)

Collaboration to Construct a Neutron Detection System for Breakup of Unstable Nuclei with Large Acceptance at the RI Beam Factory T. Baumann, M. Thoennessen (MSU)

collaboration schemes other than bilateral ones

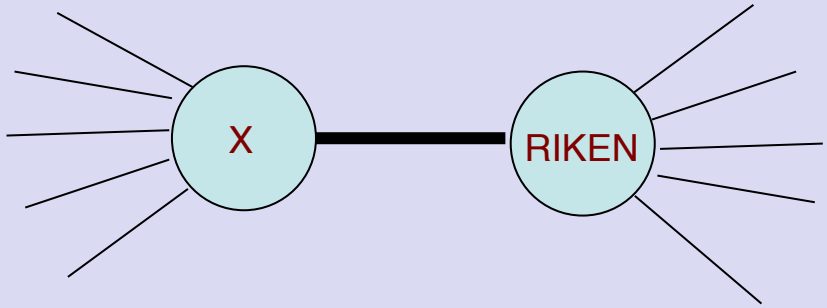
China – Chinese Nuclear Physics Community
Council for China-Japan Research Collaboration on Nuclear Physics

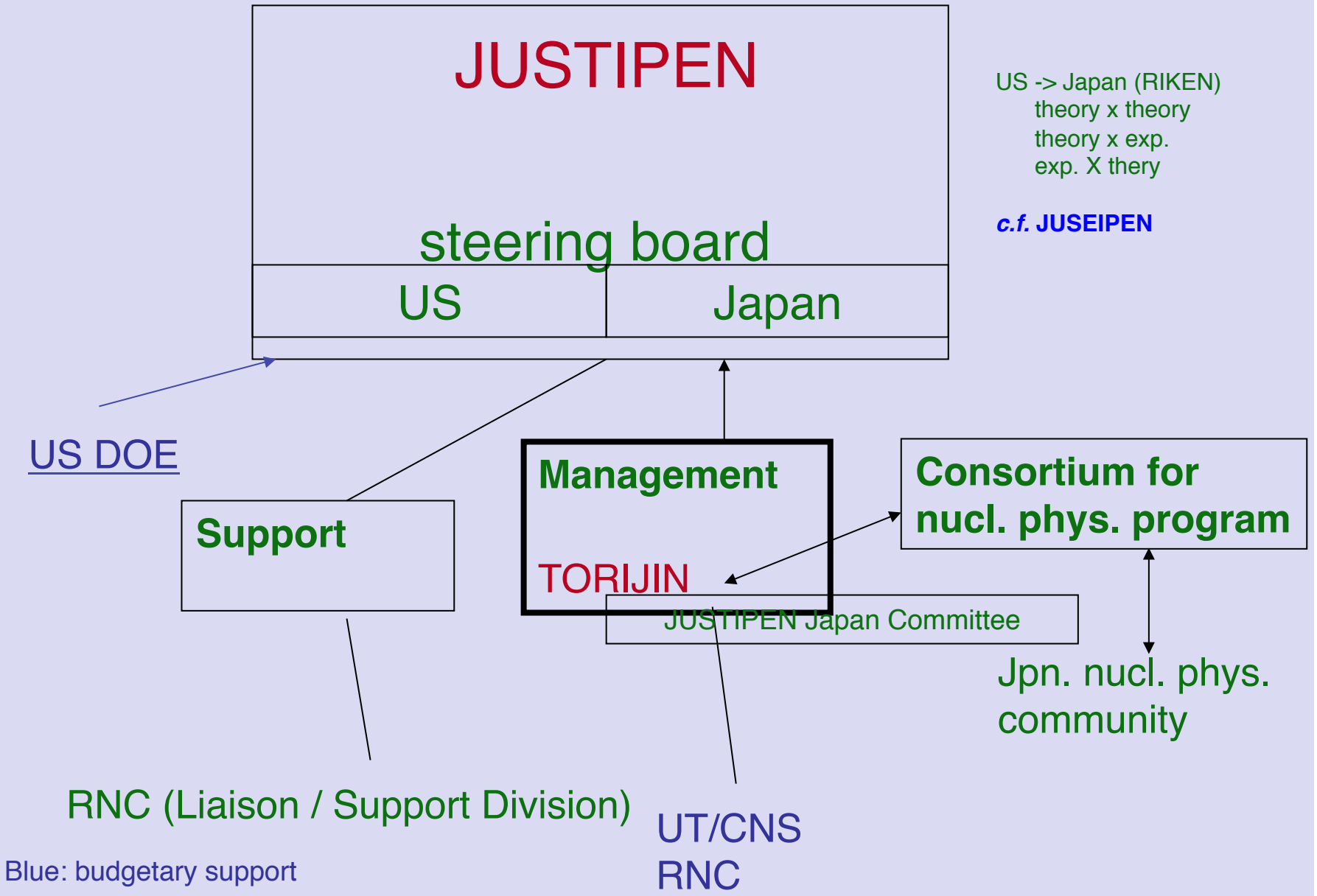
France – CNRS, CEA, GANIL
International Associated Laboratory (LIA)

Italy – INFN

Canada – TRIUMF

USA – DOE
JUSTIPEN
JUSEIPEN




JUSTIPEN
steering board
US
Japan
US -> Japan (RIKEN)
theory x theory
theory x exp.
exp. X thery
c.f. JUSEIPEN
US DOE
Management
TORIJIN
Support
Consortium for
nucl. phys. program
JUSTIPEN Japan Committee
Jpn. nucl. phys.
community
RNC (Liaison / Support Division)
UT/CNS
RNC
Blue: budgetary support

formation of new collaboration groups working group for a specific subject

- under consideration

1. Collaboration for building detectors / equipment
   RIKEN supports the meeting, travels *etc*.
   reports ➔ ← PAC advice (→ construction proposal)

2. Collaboration for studies utilizing existing devices *e.g.* DALI2+ZeroDegree
   Works for improvements / developments are shared.
   Technical information is shared.
   Research plans are discussed.

user workshop in Dec.